

## Coast Guard, DHS

must advise the consumer on the battery replacement schedule which under normal conditions would maintain performance requirements of § 161.013-3.

### § 161.013-17 Manufacturer notification.

Each manufacturer certifying lights in accordance with the specifications of this subpart must send written notice to the Commandant (CG-521), U. S. Coast Guard, 2100 2nd St., SW., Stop 7126, Washington, DC 20593-7126 within 30 days after first certifying them, and send a new notice every five years thereafter as long as it certifies lights.

[CGD 76-183a, 44 FR 73054, Dec. 17, 1979, as amended by CGD 88-070, 53 FR 34536, Sept. 7, 1988; CGD 95-072, 60 FR 50467, Sept. 29, 1995; CGD 96-041, 61 FR 50733, Sept. 27, 1996]

## PART 162—ENGINEERING EQUIPMENT

### Subpart 162.017—Valves, Pressure-Vacuum Relief, for Tank Vessels

Sec.

- 162.017-1 Incorporation by reference.
- 162.017-2 Type.
- 162.017-3 Materials, construction, and workmanship.
- 162.017-4 Inspections and testing.
- 162.017-5 Marking.
- 162.017-6 Procedure for approval.

### Subpart 162.018—Safety Relief Valves, Liquefied Compressed Gas

- 162.018-1 Applicable specifications, and referenced material.
- 162.018-2 Scope.
- 162.018-3 Materials.
- 162.018-4 Construction and workmanship.
- 162.018-5 Blow-down adjustment and popping tolerance.
- 162.018-6 Marking.
- 162.018-7 Flow rating tests.
- 162.018-8 Procedure for approval.

### Subpart 162.027—Combination Solid Stream and Water Spray Firehose Nozzles

- 162.027-1 Incorporation by reference.
- 162.027-2 Design, construction, testing and marking requirements.
- 162.027-3 Approval procedures.

### Subpart 162.028—Extinguishers, Fire, Portable, Marine Type

- 162.028-1 Applicable specifications.
- 162.028-2 Classification.
- 162.028-3 Requirements.
- 162.028-4 Marine type label.

## § 162.017-1

- 162.028-5 Independent laboratories: Listing.
- 162.028-6 Examinations, tests, and inspections.
- 162.028-7 Procedure for listing and labeling.
- 162.028-8 Termination of listing or labeling.

### Subpart 162.039—Extinguishers, Fire, Semiportable, Marine Type

- 162.039-1 Applicable specifications.
- 162.039-2 Classification.
- 162.039-3 Requirements.
- 162.039-4 Marine type label.
- 162.039-5 Recognized laboratory.
- 162.039-6 Examinations, tests, and inspections.
- 162.039-7 Procedure for listing and labeling.
- 162.039-8 Termination of listing or labeling.

### Subpart 162.050—Pollution Prevention Equipment

- 162.050-1 Scope.
- 162.050-3 Definitions.
- 162.050-4 Incorporation by reference: Where can I get a copy of the publications mentioned in this part?
- 162.050-5 Contents of application.
- 162.050-7 Approval procedures.
- 162.050-9 Test report.
- 162.050-11 Marking.
- 162.050-13 Factory production and inspection.
- 162.050-15 Designation of facilities.
- 162.050-17 Separator test rig.
- 162.050-19 Oil content meter and bilge alarm test rig.
- 162.050-20 Separator and bilge alarm test fluids.
- 162.050-21 Separator: Design specification.
- 162.050-23 Separator: Approval tests.
- 162.050-25 Cargo monitor: Design specification.
- 162.050-27 Oil content meter: approval tests.
- 162.050-33 Bilge alarm: Design specification.
- 162.050-35 Bilge alarm: Approval tests.
- 162.050-37 Vibration test.
- 162.050-39 Measurement of oil content.

AUTHORITY: 33 U.S.C. 1321(j), 1903; 46 U.S.C. 3306, 3703, 4104, 4302; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; E.O. 12777, 56 FR 54757, 3 CFR, 1991 Comp., p. 351; Department of Homeland Security Delegation No. 0170.1.

### Subpart 162.017—Valves, Pressure-Vacuum Relief, for Tank Vessels

SOURCE: CGFR 50-9, 15 FR 1680, Mar. 25, 1950, unless otherwise noted.

#### § 162.017-1 Incorporation by reference.

(a) Certain material is incorporated by reference into this subchapter with

## § 162.017-2

## 46 CFR Ch. I (10-1-11 Edition)

the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. To enforce any edition other than that specified in this section, the Coast Guard must publish notice of change in the FEDERAL REGISTER and the material must be available to the public. All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030 or go to [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html). The material is also available for inspection at the U.S. Coast Guard, Office of Design and Engineering Standards (CG-521), 2100 2nd St., SW., Stop 7126, Washington, DC 20593-7126, and is available from the sources listed below.

(b) *International Organization for Standardization (ISO)*, Case postal 56, CH-1211 Geneva 20, Switzerland:

(1) ISO 15364, Ships and Marine Technology—Pressure/Vacuum Valves for Cargo Tanks, First Edition (Sep. 1, 2000) (“ISO 15364”), 162.017-3; and

(2) [Reserved]

[USCG-2003-16630, 73 FR 65202, Oct. 31, 2008, as amended by USCG-2009-0702, 74 FR 49238, Sept. 25, 2009]

### § 162.017-2 Type.

This specification covers the design and construction of pressure-vacuum relief valves intended for use in venting systems on all tank vessels transporting inflammable or combustible liquids.

[56 FR 35827, July 29, 1991]

### § 162.017-3 Materials, construction, and workmanship.

(a) The valves shall be of substantial construction and first class workmanship and shall be free from imperfections which may affect its serviceability.

(b) Bodies of pressure-vacuum relief valves must be made of bronze or such corrosion-resistant material as may be approved by the Commanding Officer, USCG Marine Safety Center.

(c) Valve discs, spindles, and seats shall be made of bronze or such corrosion-resistant material as may be ap-

proved by the Commanding Officer, USCG Marine Safety Center.

(d) Where springs are employed to actuate the valve discs, the springs shall be made of corrosion-resistant material. Springs plated with corrosion-resistant material are not acceptable.

(e) Flame screens shall be made of corrosion-resistant wire.

(f) Nonmetallic materials will not be permitted in the construction of the valves, except bushings used in way of moving parts and gaskets may be made of nonmetallic material resistant to attack by the product carried. Nonmetallic diaphragms will be allowed where diaphragm failure will not result in unrestricted flow of cargo vapors to the atmosphere nor in an increase in the pressure or vacuum at which the valve normally releases.

(g) The design and construction of the valves shall permit overhauling and repairs without removal from the line.

(h) Valve discs shall be guided by a ribbed cage or other suitable means to prevent binding, and to insure proper seating. Where valve stems are guided by bushings suitably designed to prevent binding and to insure proper seating, the valves need not be fitted with ribbed cages.

(i) The disc shall close tight against the valve seat by metal to metal contact, however, resilient seating seals may be provided if the design is such that the disc closes tight against the seat in case the seals are destroyed or in case they carry away.

(j) Pressure-vacuum relief valves for venting cargo tanks shall be of not less than 2½ inches nominal pipe size.

(k) Bodies of valves shall be designed to withstand a hydrostatic pressure of at least 125 pounds per square inch without rupturing or showing permanent distortion.

(l) The valve discs may be solid or made hollow so that weight material may be added to vary the lifting pressure. If hollow discs are employed, a watertight bolted cover shall be fitted to encase the weight material. The pressure at which the discs open shall not exceed 120 percent of the set pressure.

(m) The free area through the valve seats at maximum lift shall not be less